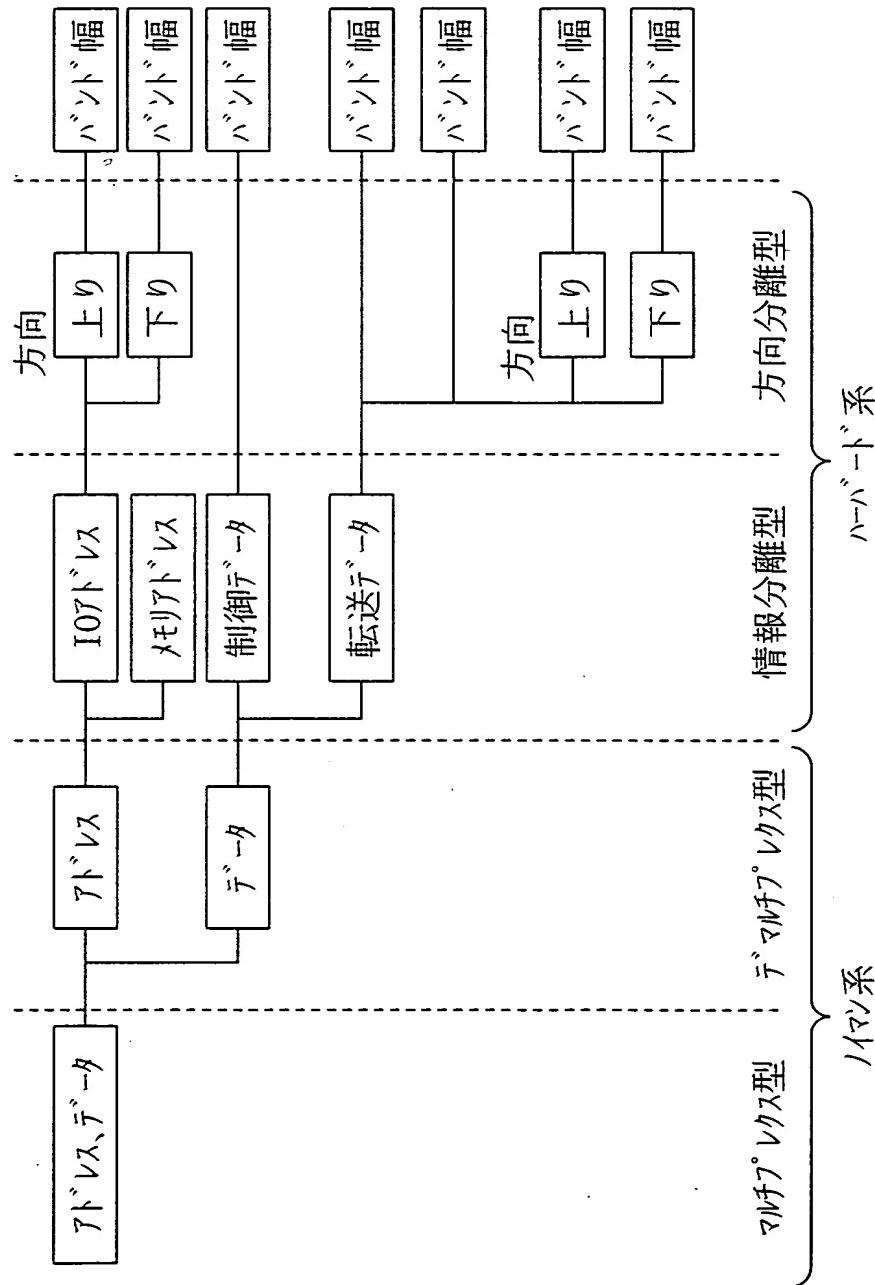


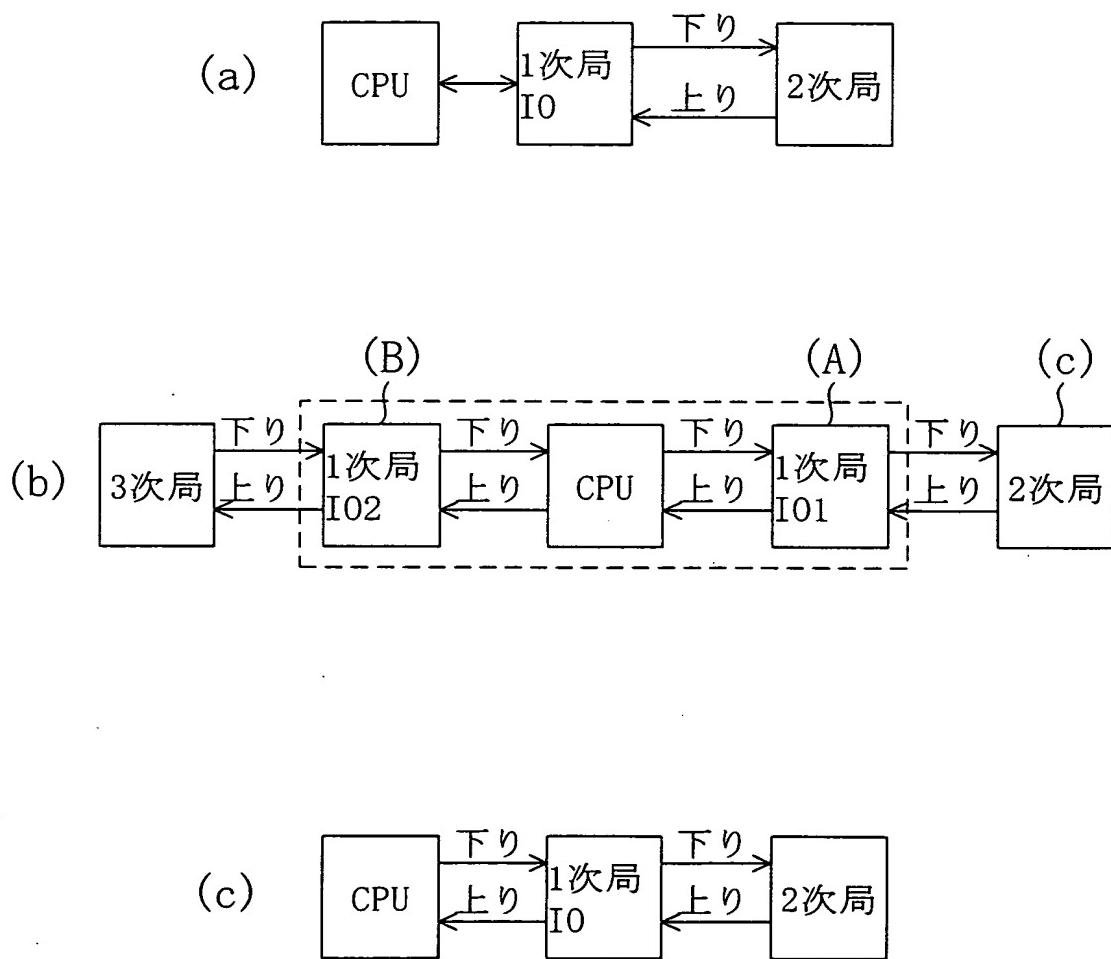
jc784 U.S. PRO  
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### 従来技術





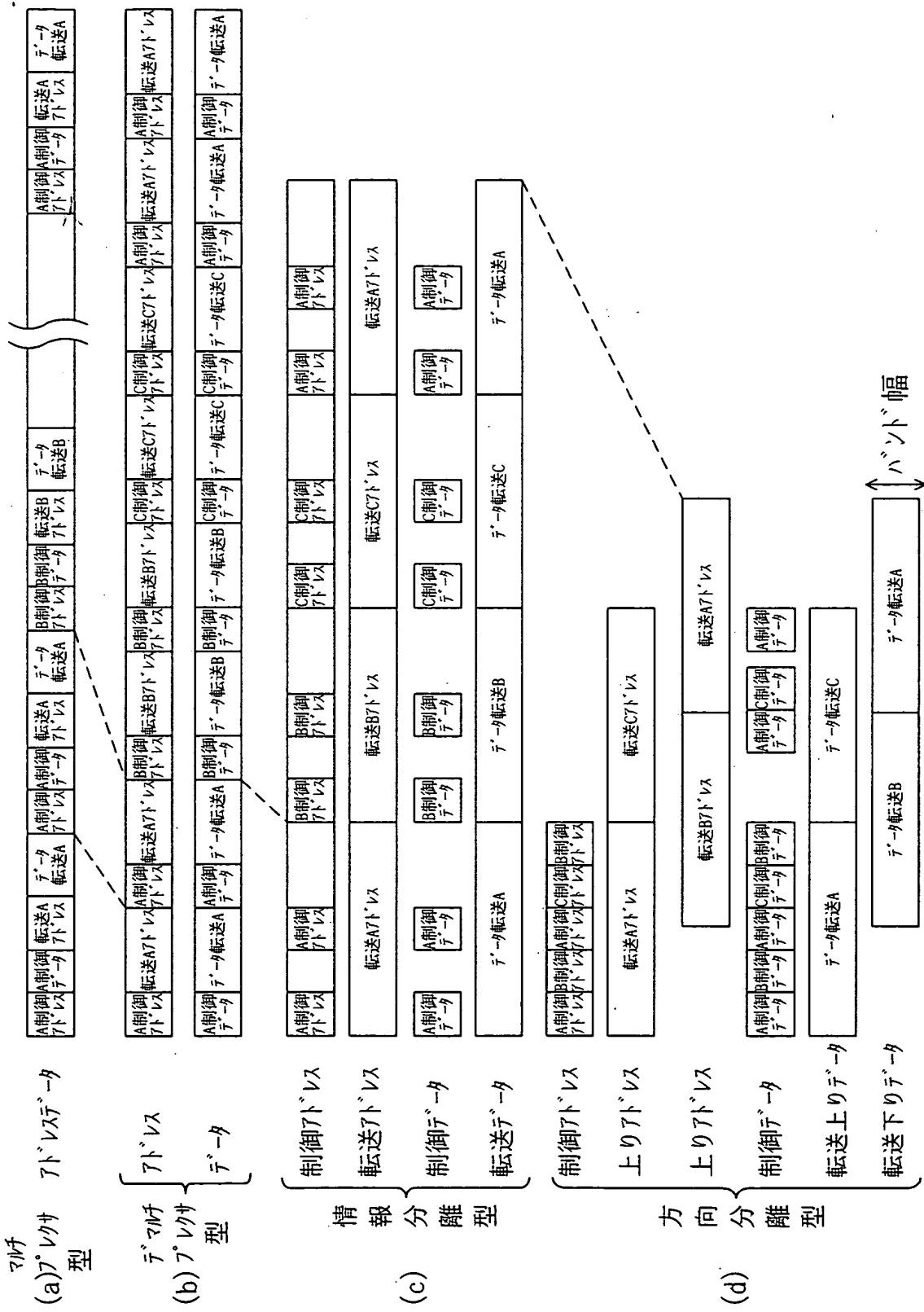
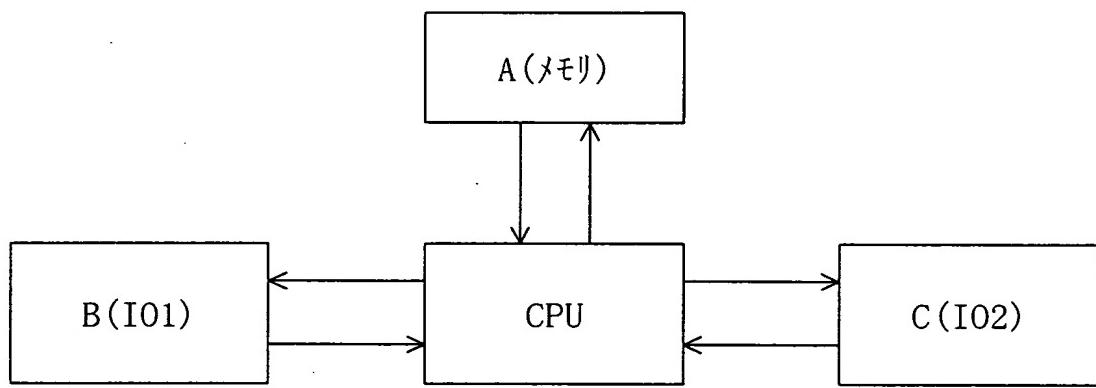
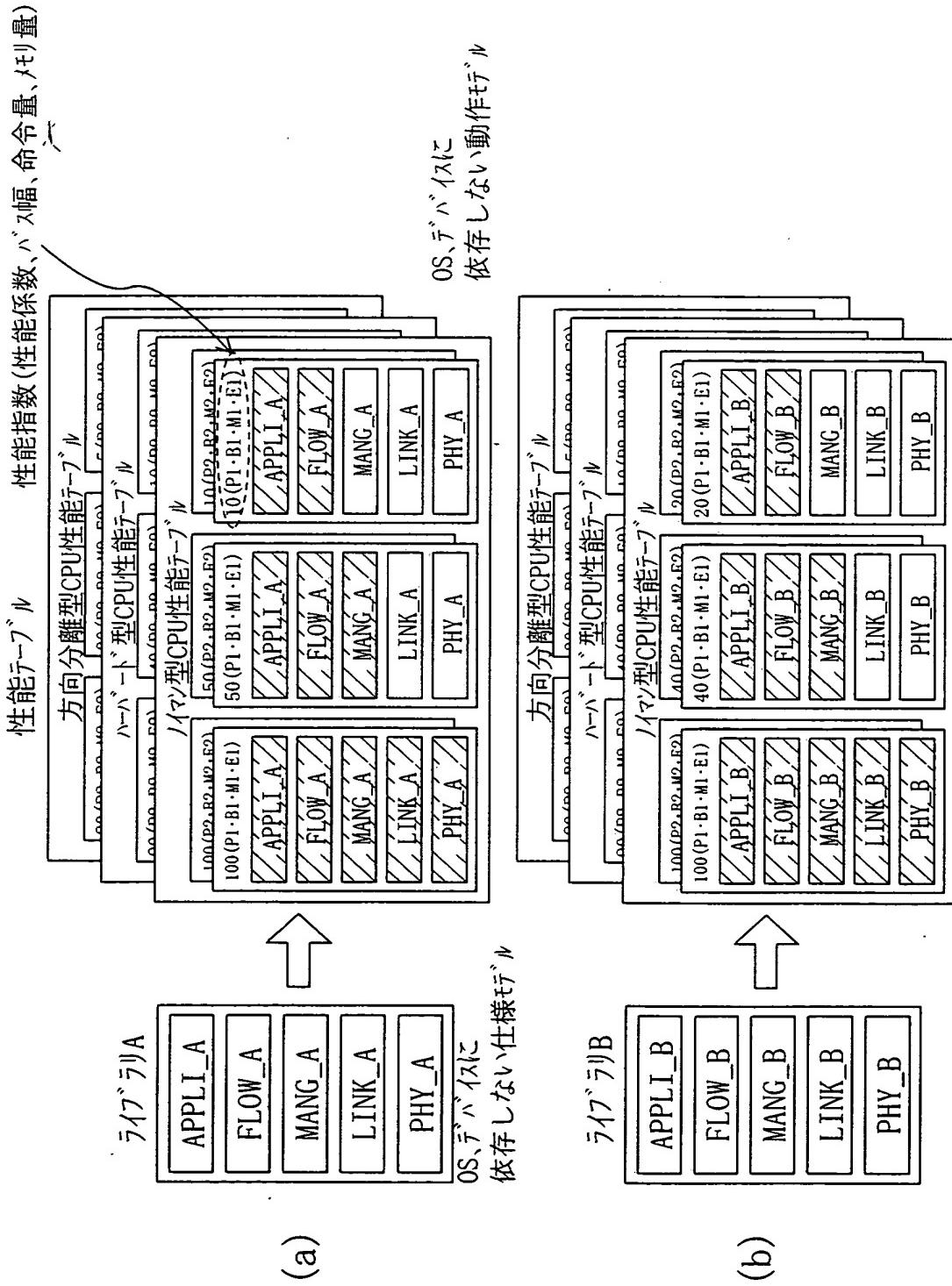
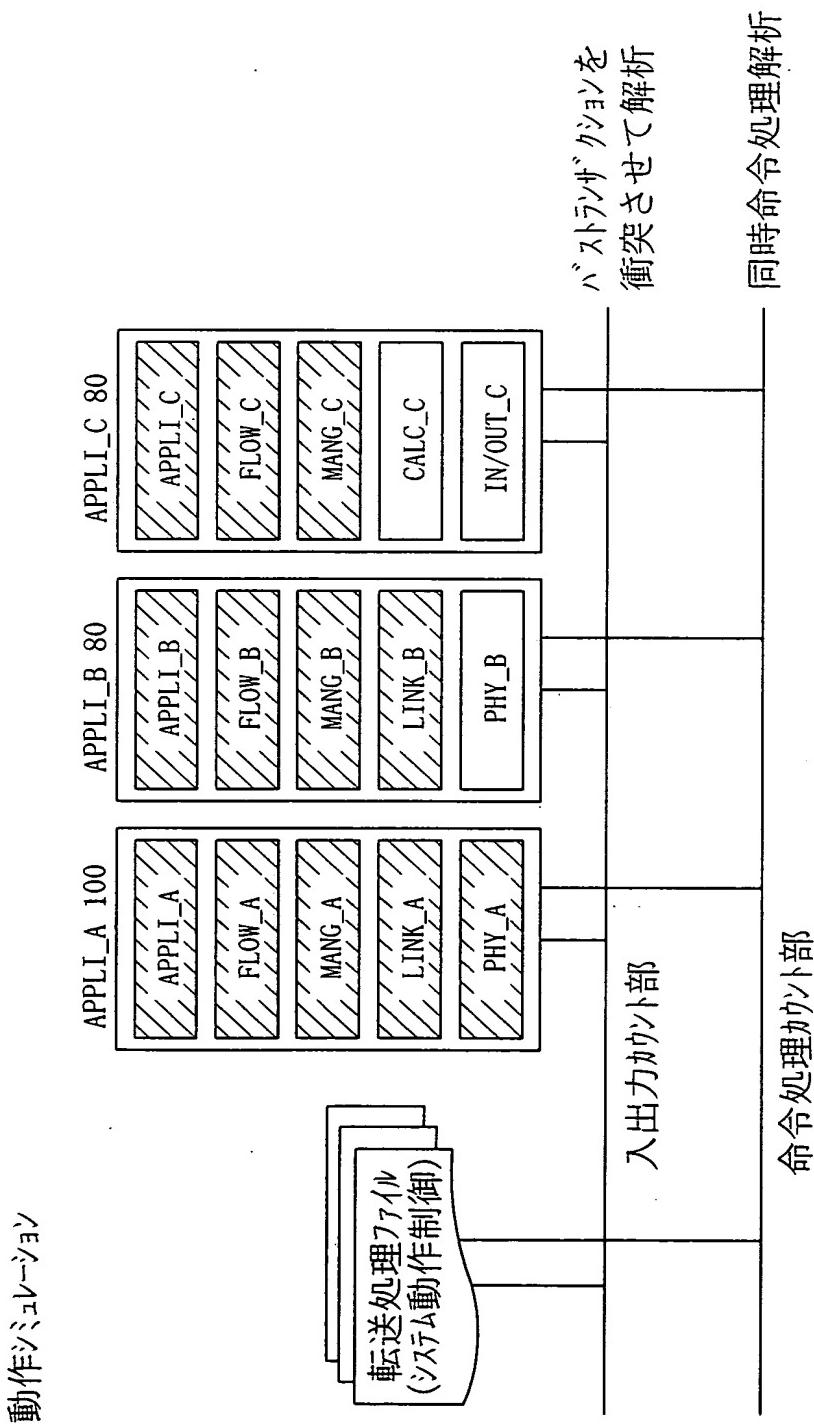
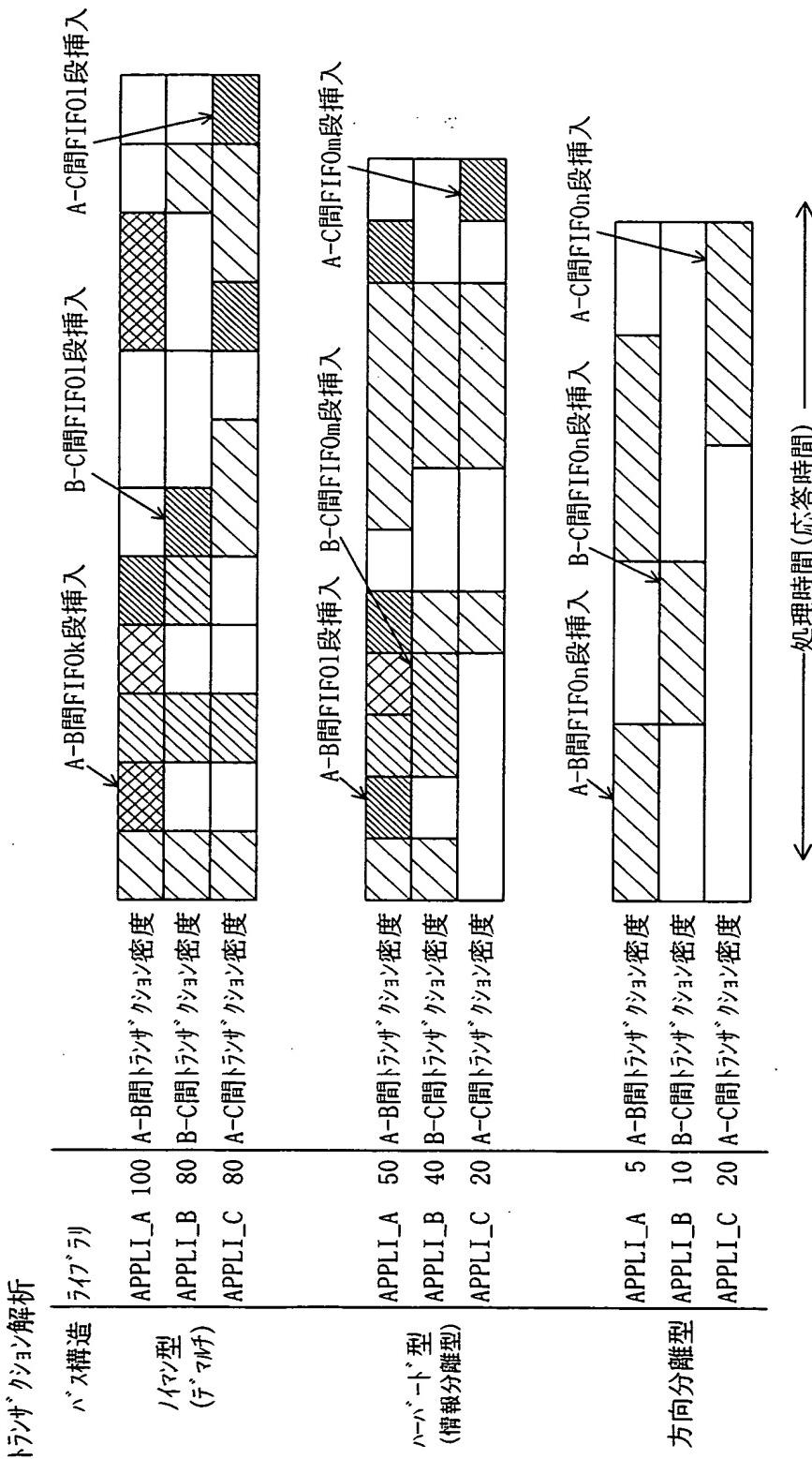


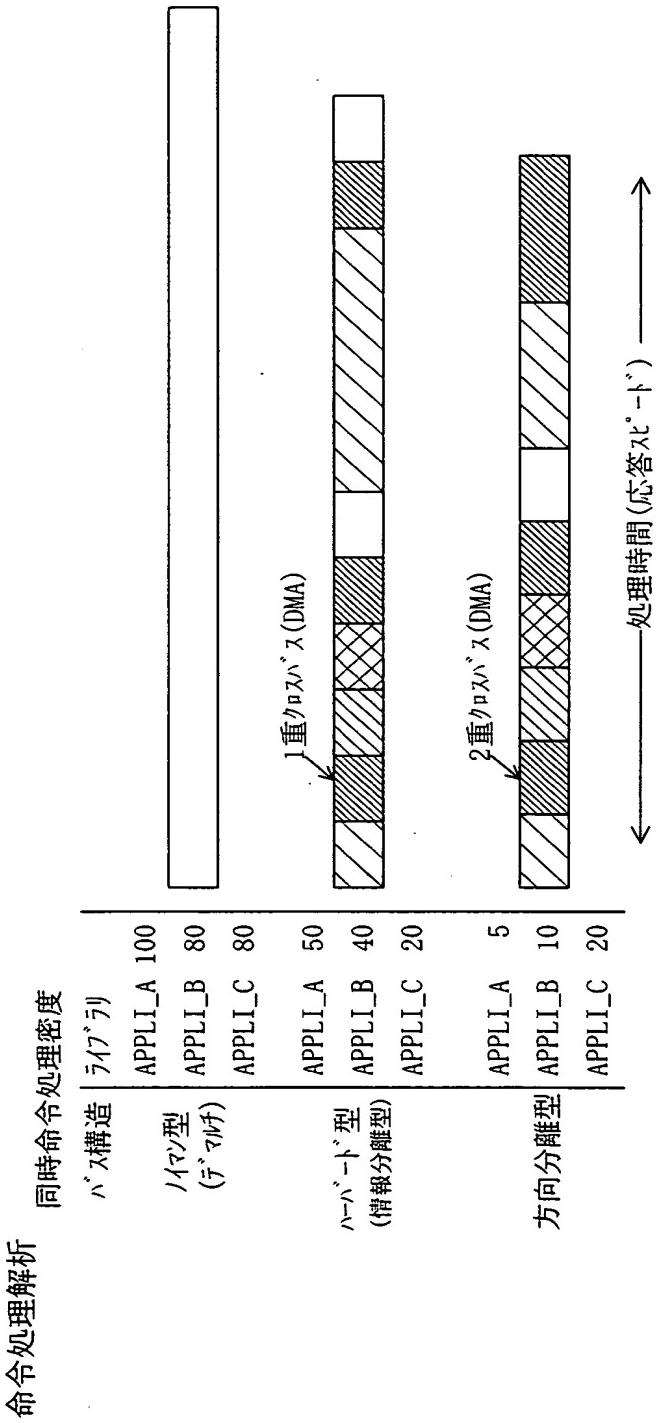
図4

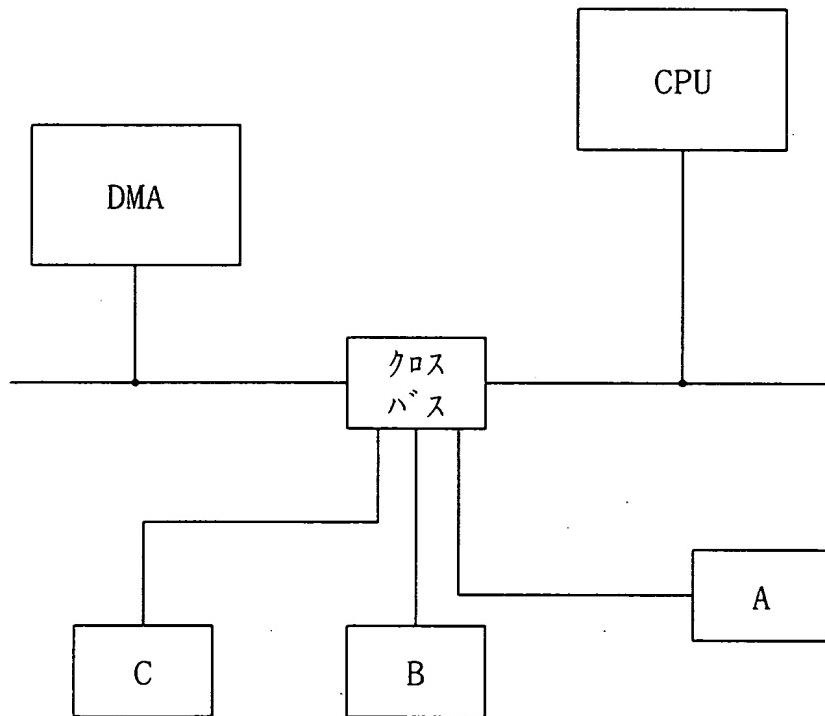


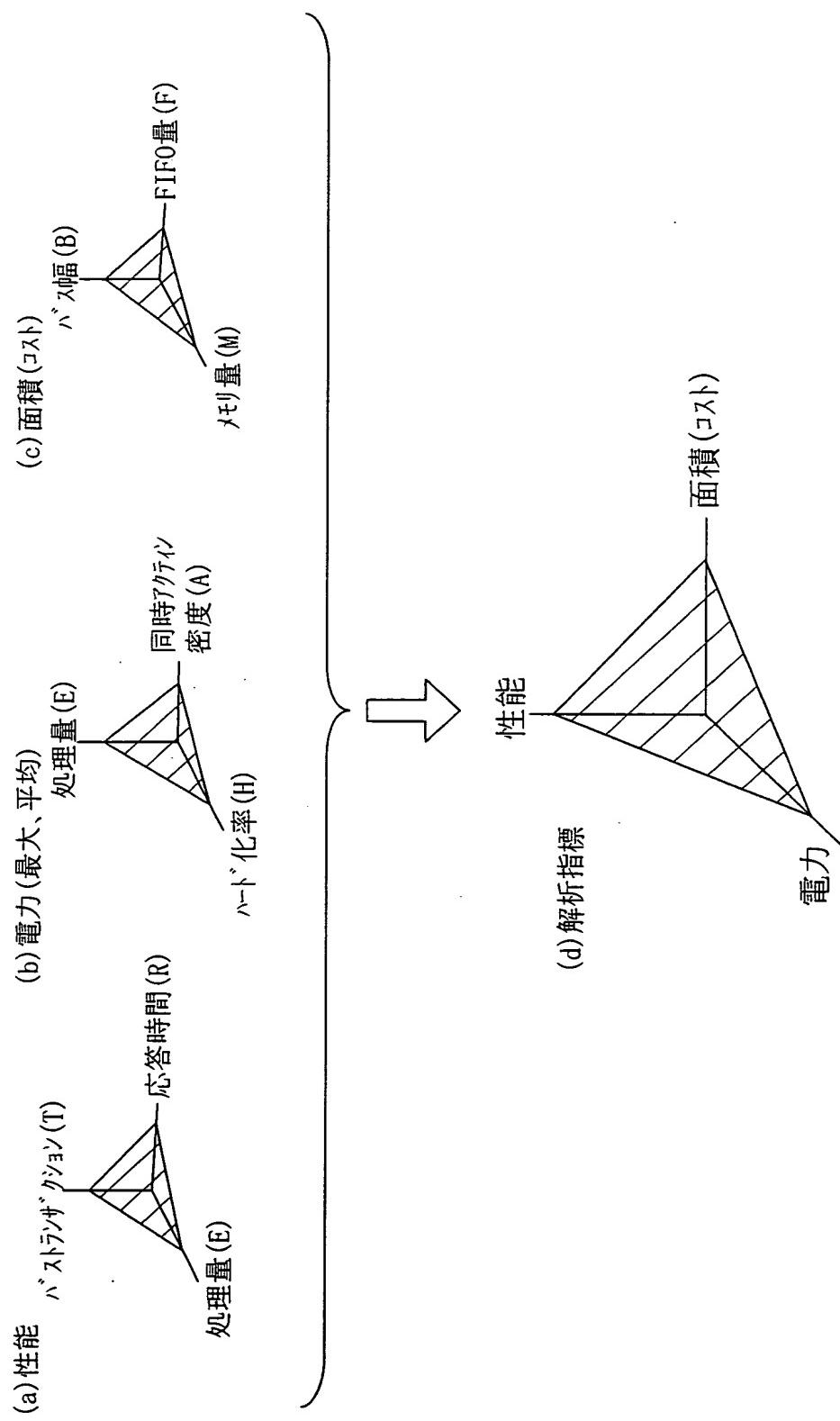












## 解析指標(重み付け指標)

### (a) 性能指標の判断基準

応答時間:R  
バストラックション:T  
処理量:E  
 $R1x \times Tmx \times En = \text{性能指數:x}$

例)  $1x = 1/1s$ ,  $Mx = 1/10\text{回}$ ,  $nx = 1/10\text{MIPS}$

### (b) 電力指標の判断基準

平均(最大)処理量:Eav(Emx)  
ハード化率:H  
平均(最大)同時アクセス率:Av  
例)  $1y = 1/10\text{MIPS}$ ,  $my = 1/20\%$ ,  $ny = 1/25\%$

処理量の電力影響係数:1y  
hardt 化率の電力影響係数:my  
同時アクセス率の電力影響係数:ny  
(Ans)  
or  $Eav = \frac{1y \times Hmy \times Aavny + Emx \times 1y \times Hmy \times Amxny}{Emx + 1y} = \text{平均電力指數}$   
Emx 1y × Hmy × Amxny = 最大電力指數

### (c) 面積指標の判断基準

メモリ量:M  
FIFO量:F  
バス幅:B  
例)  $1z = 1/1kByte$ ,  $Mz = 1/128byte$ ,  $nz = 1/16bit$

メモリ量の面積影響係数:1z  
FIFO量の面積影響係数:mz  
バス幅の面積影響係数:nz  
 $M1z \times Fmz \times Bnz = \text{面積指數:z}$

### (d) 解析指標の判断基準

性能指數 (性能)	性能指數の影響係数:a
電力指數 (電力)	電力指數の影響係数:b
面積指數 (面積)	面積指數の影響係数:c

$ax + by + cz = \text{最適指數}$   
例)  $a = 0.5$ ,  $b = 0.3$ ,  $c = 0.2$

